

AMENDMENTS TO THE SPECIFICATION:

Please replace the abstract with the revise abstract provided below:

Abstract

Disclosed are short chain peptides that are constrained to adopt an alpha helical conformation and their use as alpha helical scaffolds for directing amino acid side chains into positions analogous to those found in longer chain alpha helical peptides. Also disclosed is the use of these peptides for attaching peptidic or non-peptidic appendages in order to mimic side chains of longer alpha helical peptides. The peptides find use in mimicking naturally occurring peptides or proteins or in preparing new materials.

Please amend the description of Figure 12 found in paragraph [0247], which appears on page 45, to read as follows:

[0247] Figure 12 depicts CD spectra of constrained nociceptin mimetics SEQ ID NOs: 79 and 77, known peptidic agonist (FGGFTGARKSARK-NH₂; SEQ ID NO: 80, Ki:0.3nM), and linear address sequence (AcTGARKSARK-NH₂, SEQ ID NO:81).

Please amend the specification at paragraph [0258], which appears on page 49, to read as follows:

[0258) Synthesis of SEQ ID NOs: 77 to ~~[[80]]~~ 79 was carried on Tentagel-S-RAM resin (0.25mmol scale) by manual stepwise solid phase peptide synthesis using HCTU/DIPEA activation Tentagel-S-RAM resin using standard Fmoc SPPS (scheme), Four equivalents of amino acid and eight equivalents of diisopropylethylamine (DIPEA) were employed in each coupling step (45mins), except for Fmoc-Asp(OAllyl)-OH and Fmoc-Lys(Alloc)-OH where only 2 equivalents were used. Fmoc deprotections were achieved with 3 x 5 min treatments with excess 1: 1 piperidine:DMF. Coupling yields were monitored by quantitative ninhydrin assay and double couplings were employed for yields below 99.6%. After the assembly was complete, the allyl ester of aspartic acid and allyl carbamate of lysine were removed by treating the peptide resin with Pd(PPh₃)₄ (0.1 eq) and N.Ndimethylbarbituric acid (4eq), in DCM, under argon and in the dark for 2hrs, this procedure was repeated once. After which the peptide was washed with DCM, DMF and

0.5% diethyldithiocarbamate in DMF. 2mg of resin was subjected to cleavage and the progress of the reaction monitored by MS. This process was repeated if necessary.